

## EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits | Search Query   | DBs             | Default Operator | Plurals | Time Stamp       |
|-------|------|--|-----------------|------------------|---------|------------------|
| L2    | 0    | (SWNT) with MWNT with (catalyst) and catalyst with (oxalate formate)               | US-PGPUB; USPAT | OR               | ON      | 2010/07/23 10:22 |
| L3    | 1    | (SWNT) with MWNT with (catalyst) and catalyst same (oxalate formate)               | US-PGPUB; USPAT | OR               | ON      | 2010/07/23 10:22 |
| L4    | 3    | (SWNT) with MWNT with (catalyst) and (oxalate formate)                             | US-PGPUB; USPAT | OR               | ON      | 2010/07/23 10:22 |
| L5    | 2139 | (SWNT) and (reducing reduction reduced)  | US-PGPUB; USPAT | OR               | ON      | 2010/07/23 10:23 |
| L6    | 5    | (SWNT) and (reducing reduction reduced) with (precursor catalyst) with decompos\$3 | US-PGPUB; USPAT | OR               | ON      | 2010/07/23 10:24 |
| L7    | 18   | (SWNT) and (reducing reduction reduced) with decompos\$3                           | US-PGPUB; USPAT | OR               | ON      | 2010/07/23 10:24 |
| L8    | 10   | (SWNT) and (nonreducing reduction reduced) with decompos \$3                       | US-PGPUB; USPAT | OR               | ON      | 2010/07/23 10:25 |
| L9    | 0    | (SWNT) and (nonreducing (non adj reducing)) with decompos \$3                      | US-PGPUB; USPAT | OR               | ON      | 2010/07/23 10:25 |
| L10   | 11   | (SWNT) and (oxidiz\$5) with decompos\$3  | US-PGPUB; USPAT | OR               | ON      | 2010/07/23 10:25 |
| L11   | 68   | (SWNT) and (oxalate formate)   | US-PGPUB; USPAT | OR               | ON      | 2010/07/23 10:38 |
| L12   | 76   | (SWNT (single adj walled adj nanotubes)) and (oxalate formate)                     | US-PGPUB; USPAT | OR               | ON      | 2010/07/23 10:39 |
| S1    | 1    | ("20060104884").PN.  | US-PGPUB; USPAT | OR               | OFF     | 2008/06/26 13:09 |
| S2    | 1    | ("6333016").PN.  | US-PGPUB; USPAT | OR               | OFF     | 2008/06/26 13:30 |

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|-----|----|---|------------------------------|----|----|---------------------|
| S3  | 99 | ("4663230"   "5165909"<br>  "5227038"   "5300203"<br>  "5482601"   "5543378"<br>  "5556517"   "5560898"<br>  "5578543"   "5587141"<br>  "5591312"   "5641466"<br>  "5648056"   "5695734"<br>  "5698175"   "5707916"<br>  "5744235"   "5753088"<br>  "5773834"   "5780101"<br>  "5814290"   "5877110"<br>  "5965267"   "5985232"<br>  "5997832").PN. OR<br>("6333016").URPN. | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/06/26<br>14:05 |
| S4  | 0  | S3 and incline\$1   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/06/26<br>14:40 |
| S5  | 0  | S3 and slope\$1   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/06/26<br>14:40 |
| S6  | 0  | S3 and slop\$3  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/06/26<br>14:40 |
| S7  | 0  | S3 and formate  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/06/26<br>14:41 |
| S8  | 3  | S3 and oxalate  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/06/26<br>14:41 |
| S9  | 61 | S3 and powder   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/06/26<br>14:43 |
| S10 | 0  | S3 and fum\$3 near3<br>powder   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/06/26<br>14:53 |
| S11 | 5  | S3 and powder with<br>substrate   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/06/26<br>14:57 |
| S12 | 16 | S3 and impregnat\$3   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/06/26<br>15:01 |
| S13 | 9  | S3 and fluidiz\$3   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/06/26<br>15:19 |
| S14 | 1  | nickel adj formate same<br>nanotubes  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/06/26<br>15:39 |

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|-----|-----|--|------------------------|----|----|------------------|
| S15 | 16  | nickel adj formate and nanotubes   | US-PGPUB; USPAT; USOCR | OR | ON | 2008/06/26 15:39 |
| S16 | 16  | S3 and (inclin\$3 slop\$3 slanted roll\$3)   | US-PGPUB; USPAT; USOCR | OR | ON | 2008/06/26 15:50 |
| S17 | 27  | S3 and (angl\$3)   | US-PGPUB; USPAT; USOCR | OR | ON | 2008/06/26 15:51 |
| S18 | 99  | ("4663230"   "5165909"   "5227038"   "5300203"   "5482601"   "5543378"   "5556517"   "5560898"   "5578543"   "5587141"   "5591312"   "5641466"   "5648056"   "5695734"   "5698175"   "5707916"   "5744235"   "5753088"   "5773834"   "5780101"   "5814290"   "5877110"   "5965267"   "5985232"   "5997832").PN. OR ("6333016").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2008/06/27 11:04 |
| S19 | 6   | S18 and (ramp)   | US-PGPUB; USPAT; USOCR | OR | ON | 2008/06/27 11:04 |
| S20 | 70  | (fluidized adj bed) same (ramp)  | US-PGPUB; USPAT; USOCR | OR | ON | 2008/06/27 11:05 |
| S21 | 419 | (fluidized adj bed) with (inclin\$3)   | US-PGPUB; USPAT; USOCR | OR | ON | 2008/06/27 11:06 |
| S22 | 404 | (fluidized adj bed) with (inclined)  | US-PGPUB; USPAT; USOCR | OR | ON | 2008/06/27 11:06 |
| S23 | 15  | (fluidized adj bed) with (inclined) with coat\$3   | US-PGPUB; USPAT; USOCR | OR | ON | 2008/06/27 11:06 |
| S24 | 115 | (fluidized adj bed) with (inclined) with gas\$3  | US-PGPUB; USPAT; USOCR | OR | ON | 2008/06/27 11:07 |

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|-----|-------|--|------------------------|----|-----|------------------|
| S25 | 107   | ("4663230"   "5165909"   "5227038"   "5300203"   "5482601"   "5543378"   "5556517"   "5560898"   "5578543"   "5587141"   "5591312"   "5641466"   "5648056"   "5695734"   "5698175"   "5707916"   "5744235"   "5753088"   "5773834"   "5780101"   "5814290"   "5877110"   "5965267"   "5985232"   "5997832").PN. OR ("6333016").URPN. | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/04/28 12:13 |
| S26 | 64    | S25 and (reducing reduction)   | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/04/28 12:13 |
| S27 | 84    | S25 and (reducing reduction inert)   | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/04/28 12:13 |
| S28 | 1     | S25 and (reducing reduction inert) and oxalate   | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/04/28 12:13 |
| S29 | 52508 | (nanoparticle nanotube nanowire nanostructure (carbon adj fibril))   | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/04/28 13:01 |
| S30 | 4029  | S29 and (formate oxalate)  | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/04/28 13:02 |
| S31 | 68    | S29 and (fluidiz\$3 suspend) and (formate oxalate) same (inert reduc\$5)   | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/04/28 13:03 |
| S32 | 668   | (427/227,228).OCLS.  | US-PGPUB; USPAT        | OR | OFF | 2009/04/28 13:04 |
| S33 | 22    | S29 and S32  | US-PGPUB; USPAT        | OR | ON  | 2009/04/28 13:04 |
| S34 | 2486  | (formate oxalate) same (inert reduc\$5) and nano\$6  | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/04/28 13:14 |
| S35 | 497   | (formate oxalate) same (inert (non adj reduc\$5)) and nano\$6  | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/04/28 13:14 |
| S36 | 2423  | (formate oxalate) same (inert argon nitrogen Ar! "n.sub.2" (non adj reduc\$5)) same decompos\$6  | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/04/28 13:14 |

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| S37 | 60   | S36 and S29  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2009/04/28<br>13:15 |
| S38 | 4436 | shaffer.in. windle.in.<br>(johnson near2 brian).in.<br>geng.in. shephard.in.<br>singh.in. and<br>nanoparticle.ab. and<br>oxalate   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2009/04/28<br>13:16 |
| S39 | 5    | (shaffer.in. windle.in.<br>(johnson near2 brian).in.<br>geng.in. shephard.in.<br>singh.in.) and<br>nanoparticle.ab. and<br>oxalate | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2009/04/28<br>13:16 |
| S40 | 1    | nanoparticle.clm. and<br>oxalate.clm. and<br>fluidizing.clm.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2009/04/28<br>13:17 |
| S41 | 760  | carbon adj nanotube and<br>(oxalate formate)   | US-PGPUB;<br>USPAT           | OR | ON  | 2009/12/08<br>12:19 |
| S42 | 158  | carbon adj nanotube and<br>(oxalate formate) and<br>fluidiz\$3   | US-PGPUB;<br>USPAT           | OR | ON  | 2009/12/08<br>12:19 |
| S43 | 62   | (nanotube nanorod<br>nanowire) same carbon<br>with carbide same<br>precursor   | US-PGPUB;<br>USPAT           | OR | ON  | 2009/12/08<br>12:21 |
| S44 | 1    | (nanotube nanorod<br>nanowire) with carbon<br>same precursor with<br>fumed   | US-PGPUB;<br>USPAT           | OR | ON  | 2009/12/08<br>12:23 |
| S45 | 36   | (nanotube nanorod<br>nanowire) with carbon<br>same precursor and<br>fumed adj (silica<br>alumina)                                  | US-PGPUB;<br>USPAT           | OR | ON  | 2009/12/08<br>12:24 |
| S46 | 1    | ("5500200").PN.  | US-PGPUB;<br>USPAT           | OR | OFF | 2009/12/08<br>12:25 |
| S47 | 83   | carbon adj nanotube and<br>(oxalate formate) with<br>catalyst  | US-PGPUB;<br>USPAT           | OR | ON  | 2009/12/08<br>12:26 |
| S48 | 136  | carbon adj nanotube and<br>(oxalate formate) same<br>catalyst  | US-PGPUB;<br>USPAT           | OR | ON  | 2009/12/08<br>12:31 |

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|-----|-----|--|------------------------|----|----|------------------|
| S49 | 145 | ("4041346"   "4272699"   "4301369"   "5395774"   "5583393"   "5726524"   "5773921"   "5872422").PN. OR ("5973444").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/12/08 12:32 |
| S50 | 2   | S49 and (formate oxalate)  | US-PGPUB; USPAT; USOCR | OR | ON | 2009/12/08 12:33 |
| S51 | 136 | carbon adj (nanorod nanowire nanotube) and (oxalate formate) same catalyst   | US-PGPUB; USPAT        | OR | ON | 2009/12/08 12:34 |
| S52 | 142 | nanotube and (oxalate formate) same catalyst   | US-PGPUB; USPAT        | OR | ON | 2009/12/08 12:38 |
| S53 | 5   | nanotube and (nickel adj formate) same catalyst  | US-PGPUB; USPAT        | OR | ON | 2009/12/08 12:51 |
| S54 | 19  | nanotube and (nickel adj formate)  | US-PGPUB; USPAT        | OR | ON | 2009/12/08 12:58 |
| S55 | 29  | nanotube and (nickel with formate)   | US-PGPUB; USPAT        | OR | ON | 2009/12/08 12:59 |
| S56 | 281 | (nanotube nanowire nanorod) and (nickel ni! iron fe! cobalt co!) with (formate oxalate)                                  | US-PGPUB; USPAT        | OR | ON | 2010/07/20 15:51 |
| S57 | 17  | (nanotube nanowire nanorod) and (nickel ni! iron fe! cobalt co!) with (formate oxalate) with catalyst                    | US-PGPUB; USPAT        | OR | ON | 2010/07/20 15:52 |
| S58 | 33  | (nanotube nanowire nanorod) and (nickel ni! iron fe! cobalt co!) with (formate oxalate) same catalyst                    | US-PGPUB; USPAT        | OR | ON | 2010/07/20 15:52 |
| S59 | 10  | ((MILO) near2 (SHAFFER)).INV.  | US-PGPUB; USPAT        | OR | ON | 2010/07/20 15:53 |
| S60 | 9   | ((ALAN) near2 (WINDLE)).INV.   | US-PGPUB; USPAT        | OR | ON | 2010/07/20 15:53 |
| S61 | 607 | ((BRIAN) near2 (JOHNSON)).INV.   | US-PGPUB; USPAT        | OR | ON | 2010/07/20 15:53 |
| S62 | 3   | ((JUNFENG) near2 (GENG)).INV.  | US-PGPUB; USPAT        | OR | ON | 2010/07/20 15:54 |
| S63 | 1   | ((DOUGLAS) near2 (SHEPHARD)).INV.  | US-PGPUB; USPAT        | OR | ON | 2010/07/20 15:54 |
| S64 | 1   | ((CHANRANJEET) near2 (SINGH)).INV.   | US-PGPUB; USPAT        | OR | ON | 2010/07/20 15:54 |

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|-----|-----|---|-----------------|----|-----|------------------|
| S65 | 5   | (S59 S60 S61 S62 S63 S64) and (formate oxalate)   | US-PGPUB; USPAT | OR | ON  | 2010/07/20 15:54 |
| S66 | 1   | ("20050074392").PN.   | US-PGPUB; USPAT | OR | OFF | 2010/07/20 15:59 |
| S67 | 1   | ("6761870").PN.   | US-PGPUB; USPAT | OR | OFF | 2010/07/20 16:03 |
| S68 | 1   | S67 and decomp\$10  | US-PGPUB; USPAT | OR | ON  | 2010/07/20 16:05 |
| S69 | 33  | (SWNT nanotube nanowire nanorod) and (nickel ni! iron fe! cobalt co!) with (formate oxalate) same catalyst                              | US-PGPUB; USPAT | OR | ON  | 2010/07/20 16:05 |
| S70 | 87  | (SWNT nanotube nanowire nanorod) and (nickel ni! iron fe! cobalt co!) with (formate oxalate) and (precursor catalyst) with decompos \$6 | US-PGPUB; USPAT | OR | ON  | 2010/07/21 10:52 |
| S71 | 25  | (SWNT) and (nickel ni! iron fe! cobalt co!) with (formate oxalate)  | US-PGPUB; USPAT | OR | ON  | 2010/07/22 15:44 |
| S72 | 290 | (SWNT) with MWNT same (catalyst precursor)  | US-PGPUB; USPAT | OR | ON  | 2010/07/22 15:53 |
| S73 | 272 | (SWNT) with MWNT same (catalyst)  | US-PGPUB; USPAT | OR | ON  | 2010/07/22 15:53 |
| S74 | 110 | (SWNT) with MWNT with (catalyst)  | US-PGPUB; USPAT | OR | ON  | 2010/07/22 15:53 |

### EAST Search History (Interference)

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7/ 23/ 2010 12:28:53 PM

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